


April L Jones
45567 Briarwood Ct
Shelby Township, MI 48317
313-303-3185
October 26, 2014


Dear Editor:

My name is April L Jones and I have lived in Michigan for 56 years. Please help us to have our voices heard on the record with our Legislators and the lawmakers who must represent the increasing number of people getting sick because of smart meters. Our voices are the voices of people that remain unheard. The public must be informed of the health issues attributed to smart meters because people are suffering. It is very important that the word gets out to Michigan residents that Hearings must take place before this Legislative session is over this year. We are asking you to help us have a Hearing to have the public voices heard on the record.

This is what has occurred to since DTE installed their smart meter on my home. In 2011 DTE installed two wireless utility meters on my home a gas meter to the front and an electric meter to the back of the house. I experienced symptoms of headaches, dizziness, insomnia, extreme fatigue and exhaustion, depression, mood changes, anxiety and agitation, nausea, digestive difficulties, joint and muscle pain, flushing and tingling, memory, brain fog and concentration, microwave hearing (buzzing, high tones and skin rashes and wrinkling, blurred vision and cataracts, and accelerated aging and, hypertension flares. I had been diagnosed with heart disease when the smart meters were installed and after installation my cardiac issues were exacerbated. My symptoms included chest pains, heart palpitations and arrhythmia and shortness of breath.

My work at my job began to suffer. The chronic fatigue, pain, memory and concentration issues were so severe that I was no longer able to function at work. I saw a doctor and was diagnosed with a level of Fibromyalgia so severe it disabled me and I was forced to retire from my job of 20 years in 2012. Prior, to the installation of the smart meters on my home I was in reasonable health with no serious complications.

My symptoms continued to flare and worsen and I was forced to leave my home. Unknown to me the house had a minor pre-existing mold problem and studies show that electromagnetic fields, dirty electricity and radio frequencies create an increase in bio toxicity of mold 600 times. As a result of the smart meter radiation and its increase of bio toxic mold I had an increase in fibromyalgia and fatigue symptoms to such a degree I had to move out and I lost my home.

I had to move into a hotel for a temporary period of time until I could find a residence that would not exacerbate my condition. Unfortunately, I moved into an apartment complex where I asked whether there were smart meters on the property to which they responded no. Once I moved in my symptoms

April Jones

increased dramatically. I discovered 26 smart meters on my floor. I had to live and sleep in my car in order to avoid the exposure and danger of smart meters to my health. I then moved into another senior living complex and became increasingly sick and discovered that smart meters had been installed at the complex. I had increased fibromyalgia flares, extreme fatigue, increasing cardiac issues, memory and cognitive distress. I had to move to my current location in Shelby Township where residents still have analog meters. Since the initial installation of the smart meter on my home and cumulative exposure to smart meters I battle with permanent fibromyalgia disability accelerated aging, cataracts, and environmental sensitivities including electrosensitivity (EMF) electromagnetic field hypersensitivity. I experience symptoms to name a few including false feelings of heat, touch, pressure, pain, pins and needles, sharp pains to my head, and a false sensation of sound (tinnitus).

When I practice prudent avoidance, my symptoms decrease, and when I am subjected to pulse radio frequency, my condition intensifies. The danger of smart meters to my health are documented and substantiated by a medical doctor and health care provider. Our wellbeing and survival are at risk due to cumulative exposure to smart meters and it has become necessary for us to reach out for help to have our voices heard.

Respectfully yours,

April L Jones



Plymouth Integrative Medicine Center
36650 Five Mile Rd Suite 100
Livonia, MI 48154
Ph: 734-432-1900
Fax: 734-432-1909
Irene C. Metro M.D.

Submitted by
April Jones



**Imperial Senior Suites
27600 Franklin Rd.
Southfield, MI 48034**

September 26, 2013

Dear Sir/Madam,

April Jones has been a patient of mine since January of 2012. Among multiple others, she carries the diagnoses of Fibromyalgia, Chronic Fatigue Syndrome, Hypertension and Coronary Artery Disease. She has had Fibromyalgia Flares for the last year.

Before entering a contract with Imperial Senior Suites, Ms. Jones asked whether there were smart meters on the property to which they responded no. However, she states that she has had worsening Fibromyalgia symptoms when she was living at Imperial Senior Suites. She finally had to move to her car to avoid the symptoms.

There have been thousands of studies on whether smart meters produce health effects. After viewing many studies there are many people that have had an increase of symptoms when exposed to smart meters, I think it best that she does not stay in a building which has smart meters. Ms. Jones has chemical sensitivities and environmental sensitivities.

Please do not hesitate to call my office with any questions or concerns.

Sincerely,

Irene C. Metro M.D.

Submitted by
April Jones

The
Nutritional Healing
Center of Ann Arbor

August 30, 2013

To Whom it May Concern,

3610 W. Liberty Rd.
Ann Arbor, MI, 48103

Darren Schmidt, D.C.

Kerry Cradit, BS Nutrition

Amanda Childress,
PharmD.

Denise Acton, ND, Lic.
Acupuncture

Connie Kelly-Saur, BS
Medical Science

Jennifer Zumbrink, N.D

I am treating April Jones, a Michigan resident, DTE customer and disabled person.

I have patients in my case-load whom I have monitored over time, who have experienced adverse health effects following smart meter installation. Symptoms include high-blood pressure, fibromyalgia, weight gain, unstable blood sugar levels, insomnia, exhaustion and cardiac arrhythmia. We have also found a return of disease like A.D.D. or cancer when smart meters are installed. It is a condition that is new in our culture with the rise of wireless devices. Studies show about 3-5% of the population have a noticeable adverse reaction. Up to 50% are affected but don't know it.

April Jones was forced to leave her home after a wireless utility meter was installed outside her home. Her home had a pre-existing mold problem. Recent research by Dr. Dietrich Klinghardt shows that electromagnetic fields, poor power quality and radio frequencies create an increase in the bio toxicity of mold 600 times. Ms. Jones had an increase in her fibromyalgia and fatigue symptoms to such a degree she had to move out.

She moved into a hotel for a temporary period of time until she could find a residence that would not exacerbate her condition.

She found an apartment complex whose manager said they had no smart meters. Once she moved in, her symptoms increased dramatically. April searched around and found 26 smart meters on her floor alone. There are 8 floors so there may be as many as 200 smart meters. The safe distance from one smart meter is 92 feet away. She has been sleeping in her car to avoid exposure.

When she practices prudent avoidance, her symptoms decrease, and when she is subjected to pulsed RF, her condition intensifies. Her well being and survival are at risk due to cumulative exposure to microwave radio frequencies.

This letter is to verify that digitally pulsed radio frequencies do exacerbate her disability condition when looking at her symptomatology. The only accommodation option available is for Ms. Jones to move from the Imperial facility to ameliorate the effects of the disability in order to have the opportunity for residential use and enjoyment.

Sincerely,
Darren Schmidt, D.C.

Phone: 734-302-7575.

Drschmidt@wholisticdoctor.com www.thenutritionalhealingcenter.com

☐ Initial ☐ Annual

Name of Prospective Resident: APRIL L JONES Date 8 / 27 / 2013

Current Address: 28311 Franklin Rd Southfield, MI 48034
(Street) (City, State and Zip Code)

DIAGNOSIS

- | | | |
|--|---|---|
| <input type="checkbox"/> Allergy, drug | <input type="checkbox"/> Dementia | <input checked="" type="checkbox"/> Musculoskeletal |
| <input type="checkbox"/> Allergy, other | <input type="checkbox"/> Diabetes | <input type="checkbox"/> Kidney Disease |
| <input type="checkbox"/> Arthritis | <input checked="" type="checkbox"/> Digestive/GI | <input checked="" type="checkbox"/> Psychiatric |
| <input type="checkbox"/> Blood Disorders | <input type="checkbox"/> Eye Disorders | <input type="checkbox"/> Respiratory |
| <input type="checkbox"/> Cancer | <input checked="" type="checkbox"/> Heart Disease | <input type="checkbox"/> Urinary/Reproductive |
| <input type="checkbox"/> Circulatory/CVA | <input checked="" type="checkbox"/> Hypertension | <input type="checkbox"/> Other: _____ |

Specify Allergy: _____

Specify Diagnosis: Fibromyalgia, GERD, CAD, HTN, Depression/Anxiety.

HISTORY

Please add any additional information pertaining to past medial history. Copies of hospitalization discharge summaries within the past 12 months would be greatly appreciated.

Ms Jones cannot medically live in a residence where wireless "smart readers" gas & electric meters have been installed.

GENERAL PHYSICAL CONDITON

Aides/Equipment Requirement by patient: _____

Medications: Please note: All medications ordered must be accompanied by a pertinent diagnosis including PRN medications and over the counter medications. PRN's must give the use of the medication, the exact dosage, the exact time frames medications is to be given within a 24 hour period and directions to follow if the PRN is ineffective and symptoms persist. Please order the appropriate medications, including any prescriptions or over the counter PRN medications your patient requires on the attach "Physician Order Sheet" provided by the pharmacy servicing this community.

Self Medication Administration

- | | | |
|----|---|---|
| a. | Is your patient capable of administering his/ her own medications? | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No |
| b. | Does your patient have a history of drug addiction or excessive alcohol intake? | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No |
| c. | Are they able to determine the right medications? | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No |
| d. | Can they open the container? | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No |

- Can they determine the dose?
- Can they reorder their meds independently?
- Can they read the label?

Medication Orders

I approve the following medication orders:

FRK-AL-F002

Is your Patient:

- ☒ Ambulatory (physically and mentally able to exit the community without assistance in an emergency and can ascend or descend stairs if present in any necessary exit path, or because of physical or mental impairment, requires limited assistances, such as the use of walker, wheelchair, cane, prosthetic device or a single verbal command, to exit the residence in an emergency.)
- ☐ Non-ambulatory (By reason of physical or mental impairment is unable to exit the residence in an emergency without the assistance of another person.)

DIETS

The regular menu at Watermark Retirement Communities features a wide variety of food, including high fiber foods such as whole grain breads and cereals, fresh fruits, and vegetables. The following diets are offered. (Please check the diet most suitable for your patient)

- ☒ Regular ☐ No added Salt (NAS) ☐ No Concentrated Sweets (NCS)
- ☐ Mechanical Soft (Meat is chopped or ground; raw fruits and salads as tolerated)
- ☐ Puree (All food pureed based on menu items offered for above diets)
- Is a nutritional supplement necessary for your patient ☐ Yes ☐ No

TUBERCULOSIS SCREENING EVALUATION

Due to state regulations your patient must have a tuberculosis screening within 30 days prior to entering Watermark Retirement Communities. A 2 step is implemented if required by state guidelines/regulations.

TB Screening has been done this year (see prior file) (Please see Resident File)

Date and result of most recent Mantoux tuberculin skin test:

- a. Date: / / b. MM of induration: Lot #:
- ☐ Check here if previously positive and above information unknown.
- ☐ Check here if exhibiting TB like symptoms.

If TB skin test results has any induration or redness, previously positive or if TB like symptoms exist, respond to the following:

- a. Date of last chest x-ray evaluation: / /
- b. Are chest x-rays suggestive of active TB? ☐ Yes ☐ No
- c. Were sputum smears collected and analyzed for the presence of acid fast bacilli? ☐ Yes ☐ No
- d. If # c is YES, were these three consecutive smears negative for AFB? ☐ Yes ☐ No
- Based on the above information, is this individual free of communicable disease? ☒ Yes ☐ No

Physical Examination

Weight: 159 # Height: 5' / 2" Pulse: 68 Blood Pressure: 150 / 90

Does your patient have any of the following or care needs?

- Ventilator dependency ☐ Yes ☒ No Comment:
- Dermal Ulcers III and IV ☐ Yes ☒ No Comment:
- IV or Injections directly into the vein ☐ Yes ☒ No Comment:

Submitted by April Jones

- Airborne infections disease in a Communicable State that requires isolation or special precautions to prevent transmission ☐ Yes ☒ No Comment: _____
- Psychotropic medications without appropriate Diagnosis and / or treatment plans ☐ Yes ☒ No Comment: _____
- Naso-gastric tubes ☐ Yes ☒ No Comment: _____
- Continuous IV therapy ☐ Yes ☒ No Comment: _____
- Gastric Tubes requiring caring and feeding by care giver staff ☐ Yes ☒ No Comment: _____
- Is of imminent danger to self or others ☐ Yes ☒ No Comment: _____
- Requires continuous licensed nurse care ☐ Yes ☒ No Comment: _____
- Resident's condition is chronic and stable ☒ Yes ☐ No Comment: _____

Appropriate for: ☒ Independent Living ☐ Assisted Living ☐ Memory Care ☐ Skilled Nursing

Date of Physical Exam: 8/27/13

Irene M.
(Signature of Physician)

Irene C. Metro
(Printed Signature)

34650 5 Mile Rd Ste 100

Livonia, MI 48154

734 / 432 / 1900
(FAX)

734 / 432 / 1900
(Telephone)

Thank you for providing the necessary information about your patient. If you have any questions, please call the Resident Care Director.



American Academy of Environmental Medicine

6505 E Central • Ste 296 • Wichita, KS 67206

Tel: (316) 684-5500 • Fax: (316) 684-5709

www.aaemonline.org

Submitted by
April Jones

Executive Committee

President

A.L. Barrier, M.D., FAAO-HNS
One Hospital Drive
Columbia, MO 65212

President-Elect

Amy Dean, D.O.
1955 Pauline Blvd Ste 100D
Ann Arbor, MI 48103

Secretary

Charles L. Crist, M.D.
3009 Falling Leaf Ctr, Ste 1
Columbia, MO 65201

Treasurer

James W. Willoughby, II, D.O.
24 Main St.
Liberty, MO 64068

Immediate Past President

Robin Bernhoft, M.D., FAAEM

Advisor

Gary R. Oberg, M.D., FAAEM

Board of Directors

Craig Bass, M.D.
Amy Dean, D.O.
Stephen Genuis, M.D., FAAEM
Martha Grout, M.D., MD(H)
Janette Hope, M.D.
W. Alan Ingram, M.D.
Derek Lang, D.O.
Glenn A. Toth, M.D.
Ty Vincent, M.D.

Continuing Medical Education

Chairman

James W. Willoughby, II, D.O.
24 Main St.
Liberty, MO 64068

Executive Director

De Rodgers Fox

Press Advisory

April 12, 2012

Contact Information:

Dr. Amy L. Dean, D.O.

President-Elect

American Academy of Environmental Medicine

(734)213-4901

environmentalmed@yahoo.com

@dramydean

The American Academy of Environmental Medicine Calls for Immediate Caution regarding Smart Meter Installation

Wichita, KS- The American Academy of Environmental Medicine today released its position paper on electromagnetic field (EMF) and radiofrequency (RF) health effects calling for immediate caution regarding smart meter installations. Citing several peer-reviewed scientific studies, the AAEM concludes that "significant harmful biological effects occur from non-thermal RF exposure" showing causality. The AAEM also expresses concern regarding significant, but poorly understood quantum field effects of EMF and RF fields on human health.

"More independent research is needed to assess the safety of 'Smart Meter' technology," said Dr. Amy Dean, board certified internist and President-Elect of the AAEM. "Patients are reporting to physicians the development of symptoms and adverse health effects after 'Smart Meters' are installed on their homes. Immediate action is necessary to protect the public's health."

Dr. William J. Rea, past president of AAEM says, "Technological advances must be assessed for harmful effects in order to protect society from the ravages of end-stage disease like cancer, heart disease, brain dysfunction, respiratory distress, and fibromyalgia. EMF and wireless technology are the latest innovations to challenge the physician whose goal is to help patients and prevent disease." Rea, a thoracic and cardiovascular surgeon and environmental physician adds, "A more thorough review of technological options to achieve society's worthwhile communications objectives must be conducted to protect human health."

The AAEM calls for:

- Immediate caution regarding "Smart Meter" installation due to potentially harmful RF exposure
- Accommodation for health considerations regarding EMF and RF exposure, including exposure to wireless "Smart Meter" technology
- Independent studies to further understand health effects from EMF and RF exposure

Submitted by
April Jones

Press Advisory 12.04.12

Page 2

- Use of safer technology, including for "Smart Meters", such as hard-wiring, fiber optics or other non-harmful methods of data transmission
- Independent studies to further understand the health effects from EMF and RF exposures
- Recognition that electromagnetic hypersensitivity is a growing problem worldwide
- Consideration and independent research regarding the quantum effects of EMF and RF on human health
- Understanding and control of this electrical environmental bombardment for the protection of society

The AAEM's position paper on electromagnetic and radiofrequency fields can be found at:
http://aaemonline.org/emf_rf_position.html

AAEM is an international association of physicians and other professionals dedicated to addressing the clinical aspects of environmental health. More information is available at www.aaemonline.org.

About AAEM: The American Academy of Environmental Medicine was founded in 1965, and is an international association of physicians and other professionals interested in the clinical aspects of humans and their environment. The Academy is interested in expanding the knowledge of interactions between human individuals and their environment, as these may be demonstrated to be reflected in their total health. The AAEM provides research and education in the recognition, treatment and prevention of illnesses induced by exposures to biological and chemical agents encountered in air, food and water.

###



American Academy of Environmental Medicine

Electromagnetic and Radiofrequency Fields Effect on Human Health

For over 50 years, the American Academy of Environmental Medicine (AAEM) has been studying and treating the effects of the environment on human health. In the last 20 years, our physicians began seeing patients who reported that electric power lines, televisions and other electrical devices caused a wide variety of symptoms. By the mid 1990's, it became clear that patients were adversely affected by electromagnetic fields and becoming more electrically sensitive. In the last five years with the advent of wireless devices, there has been a massive increase in radiofrequency (RF) exposure from wireless devices as well as reports of hypersensitivity and diseases related to electromagnetic field and RF exposure. Multiple studies correlate RF exposure with diseases such as cancer, neurological disease, reproductive disorders, immune dysfunction, and electromagnetic hypersensitivity.

The electromagnetic wave spectrum is divided into ionizing radiation such as ultraviolet and X-rays and non-ionizing radiation such as ultrasound and radiofrequency (RF), which includes WiFi, cell phones, and Smart Meter wireless communication. It has long been recognized that ionizing radiation can have a negative impact on health. However, the effects of non-ionizing radiation on human health recently have been seen. Discussions and research of non-ionizing radiation effects centers around thermal and non-thermal effects. According to the FCC and other regulatory agencies, only thermal effects are relevant regarding health implications and consequently, exposure limits are based on thermal effects only.¹

While it was practical to regulate thermal effects, it was also stated that non-thermal effects are not well understood and no conclusive scientific evidence points to non-thermal based negative health effects.¹ Further arguments are made with respect to RF exposure from WiFi, cell towers and smart meters that due to distance, exposure to these wavelengths are negligible.² However, many *in vitro*, *in vivo* and epidemiological studies demonstrate that significant harmful biological effects occur from non-thermal RF exposure and satisfy Hill's criteria of causality.³ Genetic damage, reproductive defects, cancer, neurological degeneration and nervous system dysfunction, immune system

dysfunction, cognitive effects, protein and peptide damage, kidney damage, and developmental effects have all been reported in the peer-reviewed scientific literature.

Genotoxic effects from RF exposure, including studies of non-thermal levels of exposure, consistently and specifically show chromosomal instability, altered gene expression, gene mutations, DNA fragmentation and DNA structural breaks.⁴⁻¹¹ A statistically significant dose response effect was demonstrated by Mashevich *et al.*, who reported a linear increase in aneuploidy as a function of the Specific Absorption Rate(SAR) of RF exposure.¹¹ Genotoxic effects are documented to occur in neurons, blood lymphocytes, sperm, red blood cells, epithelial cells, hematopoietic tissue, lung cells and bone marrow. Adverse developmental effects due to non-thermal RF exposure have been shown with decreased litter size in mice from RF exposure well below safety standards.¹² The World Health Organization has classified RF emissions as a group 2 B carcinogen.¹³ Cellular telephone use in rural areas was also shown to be associated with an increased risk for malignant brain tumors.¹⁴

The fact that RF exposure causes neurological damage has been documented repeatedly. Increased blood-brain barrier permeability and oxidative damage, which are associated with brain cancer and neurodegenerative diseases, have been found.^{4,7,15-17} Nittby *et al.* demonstrated a statistically significant dose-response effect between non-thermal RF exposure and occurrence of albumin leak across the blood-brain barrier.¹⁵ Changes associated with degenerative neurological diseases such as Alzheimer's, Parkinson's and Amyotrophic Lateral Sclerosis (ALS) have been reported.^{4,10} Other neurological and cognitive disorders such as headaches, dizziness, tremors, decreased memory and attention, autonomic nervous system dysfunction, decreased reaction times, sleep disturbances and visual disruption have been reported to be statistically significant in multiple epidemiological studies with RF exposure occurring non-locally.¹⁸⁻²¹

Nephrotoxic effects from RF exposure also have been reported. A dose response effect was observed by Ingole and Ghosh in which RF exposure resulted in mild to extensive degenerative changes in chick embryo kidneys based on duration of RF exposure.²⁴ RF emissions have also been shown to cause isomeric changes in amino acids that can result in nephrotoxicity as well as hepatotoxicity.²⁵

Electromagnetic field (EMF) hypersensitivity has been documented in controlled and double blind studies with exposure to various EMF frequencies. Rea *et al.* demonstrated that under double blind placebo controlled conditions, 100% of subjects showed reproducible reactions to that frequency

to which they were most sensitive.²² Pulsed electromagnetic frequencies were shown to consistently provoke neurological symptoms in a blinded subject while exposure to continuous frequencies did not.²³

Although these studies clearly show causality and disprove the claim that health effects from RF exposure are uncertain, there is another mechanism that proves electromagnetic frequencies, including radiofrequencies, can negatively impact human health. Government agencies and industry set safety standards based on the narrow scope of Newtonian or “classical” physics reasoning that the effects of atoms and molecules are confined in space and time. This model supports the theory that a mechanical force acts on a physical object and thus, long-range exposure to EMF and RF cannot have an impact on health if no significant heating occurs. However, this is an incomplete model. A quantum physics model is necessary to fully understand and appreciate how and why EMF and RF fields are harmful to humans.^{26,27} In quantum physics and quantum field theory, matter can behave as a particle or as a wave with wave-like properties. Matter and electromagnetic fields encompass quantum fields that fluctuate in space and time. These interactions can have long-range effects which cannot be shielded, are non-linear and by their quantum nature have uncertainty. Living systems, including the human body, interact with the magnetic vector potential component of an electromagnetic field such as the field near a toroidal coil.^{26,28,29} The magnetic vector potential is the coupling pathway between biological systems and electromagnetic fields.^{26,27} Once a patient’s specific threshold of intensity has been exceeded, it is the frequency which triggers the patient’s reactions.

Long range EMF or RF forces can act over large distances setting a biological system oscillating in phase with the frequency of the electromagnetic field so it adapts with consequences to other body systems. This also may produce an electromagnetic frequency imprint into the living system that can be long lasting.^{26,27,30} Research using objective instrumentation has shown that even passive resonant circuits can imprint a frequency into water and biological systems.³¹ These quantum electrodynamic effects do exist and may explain the adverse health effects seen with EMF and RF exposure. These EMF and RF quantum field effects have not been adequately studied and are not fully understood regarding human health.

Because of the well documented studies showing adverse effects on health and the not fully understood quantum field effect, AAEM calls for exercising precaution with regard to EMF, RF and general frequency exposure. In an era when all society relies on the benefits of electronics, we must find ideas and technologies that do not disturb bodily function. It is clear that the human body uses electricity from the chemical bond to the nerve impulse and obviously this orderly sequence can be

disturbed by an individual-specific electromagnetic frequency environment. Neighbors and whole communities are already exercising precaution, demanding abstention from wireless in their homes and businesses.

Furthermore, the AAEM asks for:

- An immediate caution on Smart Meter installation due to potentially harmful RF exposure.
- Accommodation for health considerations regarding EMF and RF exposure, including exposure to wireless Smart Meter technology.
- Independent studies to further understand the health effects from EMF and RF exposure.
- Recognition that electromagnetic hypersensitivity is a growing problem worldwide.
- Understanding and control of this electrical environmental bombardment for the protection of society.
- Consideration and independent research regarding the quantum effects of EMF and RF on human health.
- Use of safer technology, including for Smart Meters, such as hard-wiring, fiber optics or other non-harmful methods of data transmission.

Submitted by: Amy L. Dean, DO, William J. Rea, MD, Cyril W. Smith, PhD, Alvis L. Barrier, MD

Bibliography: Electromagnetic and Radiofrequency Fields Effect on Human Health

1. California Council on Science and Technology. (Internet). (2011). Health Impacts of Radiofrequency Exposure from Smart Meters. Available from:
<http://www.ccst.us/publications/2011/2011smartA.pdf>
2. Electric Power Research Institute. (Internet). (2011). Radio-Frequency Exposure Levels from Smart Meters: A Case Study of One Model. Available from:
https://www.nvenergy.com/NVEnergize/documents/EPRI_1022270_caseStudy.pdf
3. Hill, AB. The Environment and Disease: Association or Causation? Proceedings of the Royal Society of Medicine. 1965; 58: 295-300.
4. Xu S, Zhou Z, Zhang L, et al. Exposure to 1800 MHz radiofrequency radiation induces oxidative damage to mitochondrial DNA in primary cultured neurons. Brain Research. 2010; 1311: 189-196.
5. Phillips JL, Singh NP, Lai H. Electromagnetic fields and DNA damage. Pathophysiology. 2009; 16: 79-88.
6. Ruediger HW. Genotoxic effects of radiofrequency electromagnetic fields. Pathophysiology. 2009; 16(2): 89-102.
7. Zhao T, Zou S, Knapp P. Exposure to cell phone radiation up-regulates apoptosis genes in primary cultures of neurons and astrocytes. Neurosci Lett. 2007; 412(1): 34-38.
8. Lee S, Johnson D, Dunbar K. 2.45 GHz radiofrequency fields alter gene expression on cultured human cells. FEBS Letters. 2005; 579: 4829-4836.
9. Demisia G, Vlastos D, Matthopoulos DP. Effect of 910-MHz electromagnetic field on rat bone marrow. The Scientific World Journal. 2004; 4(S2): 48-54.
10. Lai H, Singh NP. Magnetic-field-induced DNA strand breaks in brain cells of the rat. Environmental Health Perspectives. 2004; 112(6): 687-694. Available from:
<http://ehp03.niehs.nih.gov/article/info:doi/10.1289/ehp.6355>
11. Mashevich M, Foldman D, Kesar, et al. Exposure of human peripheral blood lymphocytes to electromagnetic fields associated with cellular phones leads to chromosomal instability. Bioelectromagnetics. 2003; 24: 82-90.
12. Magras IN, Xenos TD. RF radiation-induced changes in the prenatal development of mice. Bioelectromagnetics. 1997; 18:455-461.
13. Ban R, Grosse Y, Lauby-Secretan B, et al. Carcinogenicity of radiofrequency electromagnetic fields. The Lancet Oncology. 2011; 12(7): 624-626. Available from:

[http://www.thelancet.com/journals/lanonc/article/PIIS1470-2045\(11\)70147-4/fulltext?eventid=login](http://www.thelancet.com/journals/lanonc/article/PIIS1470-2045(11)70147-4/fulltext?eventid=login)

14. Hardell L, Carlberg M, Hansson Mild K. Use of cellular telephones and brain tumour risk in urban and rural areas. *Occup. Environ. Med.* 2005; 62: 390-394.
15. Nittby H, Brun A, Eberhardt J, et al. Increased blood-brain barrier permeability in mammalian brain 7 days after exposure to the radiation from a GSM-900 mobile phone. *Pathophysiology.* 2009; 16: 103-112.
16. Awad SM, Hassan NS. Health Risks of electromagnetic radiation from mobile phone on brain of rats. *J. Appl. Sci. Res.* 2008; 4(12): 1994-2000.
17. Leszczynski D, Joenvaara S. Non-thermal activation of the hsp27/p38MAPK stress pathway by mobile phone radiation in human endothelial cells: Molecular mechanism for cancer - and blood-brain barrier – related effects. *Differentiation.* 2002; 70: 120-129.
18. Santini R, Santini P, Danze JM, et al. Study of the health of people living in the vicinity of mobile phone base stations: 1. Influences of distance and sex. *Pathol Biol.* 2002; 50: 369-373.
19. Abdel-Rassoul G, Abou El-Fateh O, Abou Salem M, et al. Neurobehavioral effects among inhabitants around mobile phone base stations. *Neurotox.* 2007; 28(2): 434-440.
20. Hutter HP, Moshhammer H, Wallner P, Kundi M. Subjective symptoms, sleeping problems, and cognitive performance in subjects living near mobile phone base stations. *Occup. Environ. Med.* 2006; 63: 307-313.
21. Kolodynski AA, Kolodynska VV. Motor and psychological functions of school children living in the area of the Skrunda Radio Location Station in Latvia. *Sci. Total Environ.* 1996; 180: 87-93.
22. Rea WJ, Pan Y, Fenyves EJ, et al. Electromagnetic field sensitivity. *Journal of Bioelectricity.* 1991; 10(1 & 2): 243-256.
23. McCarty DE, Carrubba S, Chesson AL, et al. Electromagnetic hypersensitivity: Evidence for a novel neurological syndrome. *Int. J. Neurosci.* 2011; 121(12): 670-676.
24. Ingole IV, Ghosh SK. Cell phone radiation and developing tissues in chick embryo – a light microscopic study of kidneys. *J. Anat. Soc. India.* 2006; 55(2): 19-23.
25. Lubec G, Wolf C, Bartosch B. Amino acid isomerisation and microwave exposure. *Lancet.* 1989; 334: 1392-1393.
26. Smith CW. Quanta and coherence effects in water and living systems. *Journal of Alternative and Complimentary Medicine.* 2004; 10(1): 69-78.

Submitted.
by April Jones

27. Smith CW (2008) Fröhlich's Interpretation of Biology through Theoretical Physics. In: Hyland GJ and Rowlands P (Eds.) Herbert Fröhlich FRS: A physicist ahead of his time. Liverpool: University of Liverpool, 2nd edition, pp 107-154.
28. Del Giudice E, Doglia S, Milani M, et al. Magnetic flux quantization and Josephson behavior in living systems. Physica Scripta. 1989; 40: 786-791.
29. Tonomura A, Osakabe N, Matsuda T, et al. Evidence for Aharonov-Bohm effect with magnetic field completely shielded from electron wave. Phys. Rev. Let. 1986; 56(8):792-75.
30. Del Giudice E, De Ninno A, Fleischmann, et al. Coherent quantum electrodynamics in living matter. Electromagn. Biol. Med. 2005; 24: 199-210.
31. Cardella C, de Magistris L, Florio E, Smith C. Permanent changes in the physic-chemical properties of water following exposure to resonant circuits. Journal of Scientific Exploration. 2001; 15(4): 501-518.